

# INPO and Data Science

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Data Management and Industry Trends



# Data Science Application

- Supports monitoring station and corporate performance between evaluations/peer reviews
- Informs application of resources

# Data Science Tools - Current

- Neural Models Applying Artificial Intelligence
- Models Leveraging Machine Learning

# Neural Modeling

- Hundreds of data points are collected monthly
- Experience records are continuously reported
- Thousands of indicators are developed combining the data points and experience records
- Effects based models – limits subjectivity
- Neural modeling identifies patterns within these indicators that correlate to overall and area assessments



# Data Science - Future

- Neural Forecasting
- Scram Correlations
- Equipment Failure Correlations
- Predictive, Behavior-Informed Modeling

# Questions?

